



U.S. Department
of Transportation

Research and
Special Programs
Administration

400 Seventh Street, S.W.
Washington, D.C. 20590

SEP 28 2004

DOT-E 7774
(TWELFTH REVISION)

EXPIRATION DATE: August 31, 2006

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Pipe Recovery Systems, Inc.
Houston, TX
2. PURPOSE AND LIMITATION:
 - a. This exemption authorizes the transportation in commerce of bromine trifluoride in non-DOT specification cylinders. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 172.301(c) and 173.228(a) and 175.3 in that non-DOT specification cylinders are not authorized, except as specified herein.
5. BASIS: This exemption is based on the applications of Pipe Recovery Systems, Inc. dated September 7, 2004, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Bromine trifluoride	5.1	UN1746	I, Hazard Zone B

7. SAFETY CONTROL MEASURES:a. PACKAGING -

(1) Prescribed packagings are non-DOT specification, nonrefillable, seamless cylinders manufactured from SAE 4140, 4135 or 4130 alloy steel tubing closed at each end with threaded plugs equipped with service openings. Each cylinder must conform with Pipe Recovery Systems, Inc. drawings 211017-000, 212051-000, 216022-000, 216018-000, 218018-000, 222023-000, 222041-000, 222045-000, 227136-000, 227137-000, 227185-000, 227169-000, 240038-000, 240031-000, or 240032-000 on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA). The cylinders range from 7 cubic inches to 80 cubic inches water capacity; 11/16 inch to 2.0 inches outside diameter; and 36 to 72 inches in length.

(2) The design burst pressure of the cylinder must be at least 28,000 psi.

(3) Pressure relief devices are prohibited.

(4) Maximum filling density must be such that the liquid content must not completely fill the cylinder at 54°C (130°F).

b. TESTING - At the time of manufacture, each cylinder must be tested to a minimum of 5000 psi.c. OPERATIONAL CONTROLS -

(1) Drivers must have been instructed as to necessary safeguards and proper procedure in the event of unusual delay, fire or accident.

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(2) Cylinders must be overpacked in a strong wooden box; however, not more than 6 cylinders may be packed per wooden box.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

c. MARKING - The marking requirements of § 172.301(c) are waived. Each wooden box must be marked "INSIDE CONTAINERS COMPLY WITH DOT-E 7774".

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, and cargo aircraft only.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper must furnish a current copy of this exemption to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this exemption must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:



Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

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(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590. Attention: DHM-31.

Copies of this exemption may be obtained by accessing the Hazardous Materials Safety Homepage at <http://hazmat.dot.gov/exemptions> Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: CWF/sln